



THE METAL PREPARATION DIVISION recently chalked up a patent application made in the name of the U. S. Government on an advancement by Jack M. Jones, left. His development, entitled 'Brazing Alloy for Joining Graphite to Graphite and to Refractory Metals,' brought the application. He is congratulated above by Spears P. Vavalides, Beta Four Forming.

Nuclear-Powered Cardiac Pacemaker Is Developed For Heart Institute

A compact nuclear-powered cardiac pacemaker designed to operate for at least 10 years has been successfully implanted in a dog at the National Heart Institute, National Institute of Health, Bethesda, Maryland.

The device was developed by the Atomic Energy Commission with the Nuclear Materials and Equipment Corporation as principal contractor. The AEC has been developing and testing the device for three years in the laboratory under conditions simulating those in the human body. The implantment and others to follow are intended to test the reliability of the device in animals.

The nuclear pacemaker is about two-thirds the size of a pack of cigarettes and weighs three and one-half ounces. It is one three-sixteenth inches wide, one seven-eighths inches deep and two and seven-sixteenth inches long.

Artificial pacemakers maintain normal heartbeat in patients with "heart block," a condition which usually results from disease-induced injury to the heart's specialized conduction system.

Scientists hope that the nuclear powered pacemaker will eventually replace battery operated devices currently used by about 20,000 persons. In addition, about 5,000 new heart block patients receive pacemakers each year.

The mercury cells that power most conventional artificial pacemakers have a limited lifetime due to battery depletion, and therefore the pacemakers must be replaced frequently, usually within two or three years of the original implantment.

Pacemaker replacement, although a simple and minor surgical procedure, entails inconvenience, expense and medical risk to

the patient. Battery failure sometimes occurs with little warning to the patient and can have serious consequences. Thus a power source designed to perform with high reliability for an uninterrupted period of 10 years is a major milestone in pacemaker technology.

Plutonium-238 was selected as the energy source because it is an emitter of alpha particles which have high energy but very low penetrating power (they can be stopped by a thin piece of paper, for example). This combination makes possible the use of only a small amount of plutonium-238 (about one-half gram) and eliminates the need for special radiation shielding material. Stray radiation is no greater than that from the radium dial of wrist watches.

Northeastern's Sharon Guest Seminar Speaker

"Results of Calculations with Projected Wave Functions — A First Step Toward a Unified Picture of Nuclear Structure" is the subject of this week's Physics Division seminar. Guest will be Y. Y. Sharon, Northeastern University.

The seminar is set for Friday, August 15, at 3:15 p.m. in the East Auditorium of ORNL's 4500 building.

WATCH CAMPFIRE

Before starting an open campfire, clear away all combustible material — grass, sticks, dead leaves, and the like. "Clear the ground an axe-length round" is an old lumberjack rule. Still better is to add the length of your arm to that of the axe, says the National Safety Council.

H. C. Raley Promoted To Security Analyst

Leaves Electrical Department August 1



Harry C. Raley

Harry C. Raley's promotion to Security Analyst is announced, effective Friday, August 1. He transfers from the Maintenance Division's Electrical and Electronics Department, to the Security Department.

Raley, a native of Knoxville, is a 20-year veteran of the armed forces. He was in the U.S. Army from July 1946 until July 1949 ... and in the U.S. Air Force from then until May, 1967. He came to Y-12 July 10, 1967.

Mrs. Raley is the former Esther Overstreet. The couple lives in the Farragut community. Raley's chief hobbies center around softball and water sports.

YOUNG LOCHINVAR

'Pardon me for coming to the door for your daughter,' explained the young suitor to the mama ... 'but my horn isn't working.'

Utilities Promotes Two To Foremen On August 1

The Utilities Administration Department announces the promotion of Dewey Stevens and Jesse H. Thomas to utilities foremen, both effective August 1.

Stevens, a native of Pennington Gap, Virginia, came to Y-12 May 26, 1952. He is a veteran of the U.S. Army. He worked his first stint in Y-12 from 1943 until 1947 ... then was with the New Jellico Coal Company, Jellico, before his return to Y-12.

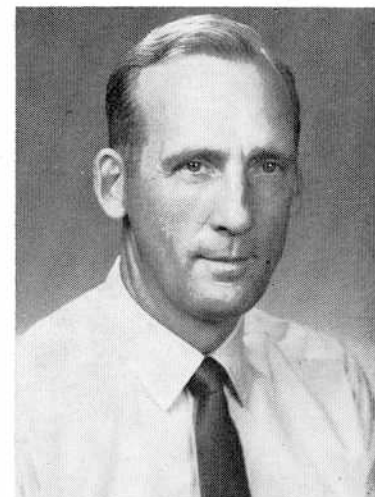
The Stevens live at Route 17, Guinn Road, Knoxville. Mrs. Stevens is the former Beatrice Payne. They have two children, Thomas and Sylvia.

Stevens likes to fish and water ski when time allows.

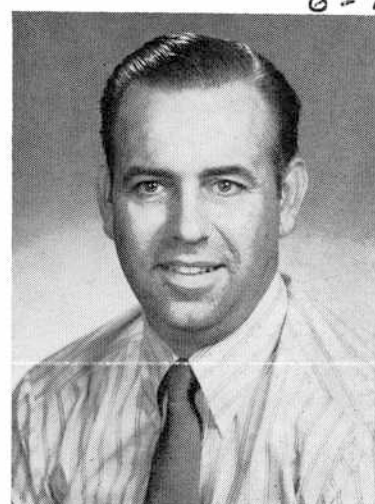
Jesse H. Thomas was born in Walland, Tennessee, over in Blount County near the Smoky Mountain National Park boundary. He came to Y-12 September 27, 1954. A veteran of the U.S. Marine Corps, Thomas worked at the University of Tennessee, Rust Engineering Company, and Strange Produce Company, Knoxville, before coming here. He was in the Marines from 1951 until 1954.

The Thomas home is at Route 4, Walnut Lane, Clinton, near the Bull Run Steam Plant. Mrs. Thomas was Joanne Duke before her marriage. The couple has two children, Kimberly and Jess Ann.

Thomas particularly enjoys doing things with his family ... picnic outings and what have you ... says he's a Sunday fisherman too.



Dewey Stevens



Jesse H. Thomas

Astronauts' Sun Visor Made Of Polysulfone

Another Carbide contribution to the Man on the Moon was the sun visor worn by the astronauts. It was made of polysulfone vacuum-coated with gold on the inner surface. It provided protection against light as well as reduced heat gain within the helmet. Polysulfone is the most heat-resistant transparent plastic available. It can withstand temperatures up to 350 degrees Fahrenheit. The temperature on the surface of the moon, when the astronauts walked into direct sunlight, was somewhat above 250 degrees Fahrenheit. The polycarbonate material used for the inner visor was about at its limit, since it distorts at 270 degrees.

LOVE'S LABOR LOST

Don't mistake every sad looking woman you see as having loved and lost ... she very well may have got her man.

SAFETY SCOREBOARD

The Y-12 Plant Has Operated
261 Days Or
8,513,000 Man-Hours
(Unofficial Estimate)
Through August 10
Without A Disabling Injury
SAFETY AT HOME,
AT WORK, AT PLAY

Atom In Space New AEC Film

A nontechnical film on "Nuclear Propulsion in Space" is being made available to the public on a free-loan basis by the Atomic Energy Commission. The 20-minute movie, filmed in color by the National Aeronautics and Space Administration, compares the heavy conventional chemical rockets of today with the lightweight, nuclear-powered ones of tomorrow.

Nuclear power will result in a significant increase in the velocity of a given payload in space. The increased velocity will cut travel time and permit additional payload weight.

The film explains how a nuclear rocket engine works, covering such points as the fissioning of uranium-235 in the reactor core to produce heat and the passage of the hydrogen propellant through the engine to produce thrust. Also included are scenes from NASA-AEC tests now being conducted at the Nuclear Rocket Development Station in Nevada and at the AEC's Los Alamos, New Mexico, Scientific Laboratory.

The film is available for free loan, except for return postage, from the AEC's motion picture film library.

NOTE OF HAPPINESS

All Americans are happy to pay their fair share of taxes. Of course, we'd be just as happy paying half as much tax!

The Bulletin

Published Weekly For The
Y-12 Employees Of
UNION CARBIDE
CORPORATION



NUCLEAR DIVISION

JAMES A. YOUNG Editor



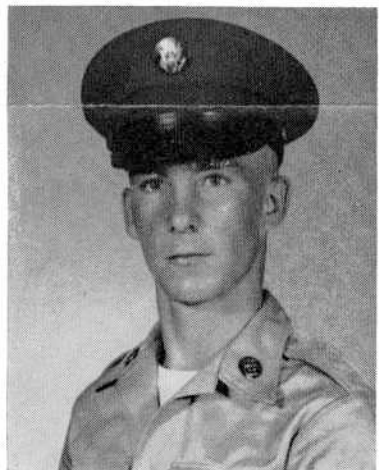
American Association Industrial Editors

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Telephone 3-7100

Moore Sons Are Assigned Army Duty



Pvt. Dennis E. Moore



Pvt. Donald E. Moore

H. E. Moore, Process Maintenance, has two sons in service . . . both in the U.S. Army.

Pvt. Dennis E. Moore arrived in Germany at Friedburg, May 15, of this year. Pvt. Donald E. Moore took up his post at Ft. Gordon, Georgia a week later on May 22.

The Moore home is at 201 E. Fourth Street, Lenoir City.

How To Reduce The Federal Budget . . .

Every dollar of federal taxes buys about 50¢ of past, present and future defense and 49¢ of everything else. The Vietnam war takes 13¢ of your present tax dollar. Veterans benefits (four cents) and interest on the public debt (six cents) stem mainly from past wars. You buy 22¢ worth of social security, 12 cents of education and social programs, two cents of international aid, two cents debt reduction and 11¢ of everything else (mainly, running the machinery of government). Our April 15 headache yields \$90 billion—only 46 cents of the tax dollar. Social Security and corporation taxes pay most of the rest. If you want lower taxes, government costs—either defense or domestic—must be cut somewhere.

If you feel rich, you are.



Mrs. Michael John Reynolds

'Sea Gulliver' To Study Fish

"Sea Gulliver" will travel to the bottom of Chesapeake Bay not far from the nation's capital in the near future in a test study of lilliputian phytoplankton. The goal of the Sea Gulliver project is to take much of the guesswork out of commercial fishing.

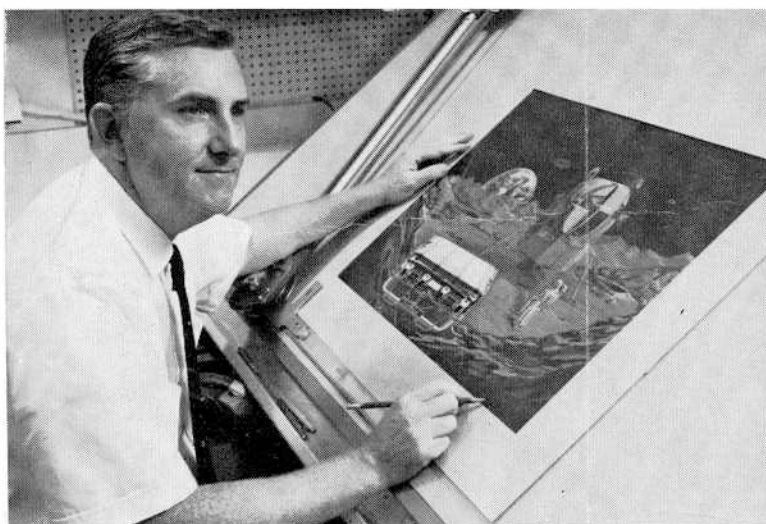
Development of the device, a cylindrical instrument about eight inches in diameter and a foot long, is by Biospherics Research, Inc., of Washington, D.C. under contract from the Atomic Energy Commission as part of the AEC's effort to introduce isotope technology to industry.

The Sea Gulliver project is based on use of radioisotope techniques to measure growth of phytoplankton—the microscopic sea plants that grow by using the sun's energy, carbon dioxide, and water.

Phytoplankton, the first link in the ocean's food chain, are eaten by successively larger organisms and ultimately sustain the total fish population. A measurement of the rate at which plankton reproduce will provide an estimate of the food available to fish, and, hence, the size of the coming fish crop.

The Sea Gulliver instrument is being designed for automated unattended operation under the sea. Should the concept prove successful, a network of Sea Gullivers would inform commercial fishermen of the size, timing, and location of the major fish harvests. The instruments could be interrogated periodically by ships or satellites and the data would be processed by computer.

Adjust your driving to fit the condition, keep control of the wheel and your disposition.



BOBBY SAMPLES, TECHNICAL Information Services, is seen at the drafting board, designing the beautiful color illustration of Apollo 11's landing on the moon. The rock-box, designed and fabricated here, is seen in the foreground of the illustration.



REYNOLDS—HENSLEY

The marriage of Miss Carolyn Sue Hensley to Michael John Reynolds was solemnized at 4 p.m. in the First Baptist Church, Oak Ridge, Saturday, June 21.

Dr. Edward D. Galloway, pastor, performed the double-ring ceremony. Mrs. Earl Henry, organist, and Mrs. Jack Finchum, vocalist, presented a program of wedding music.

The bride is the daughter of Mr. and Mrs. Edward Hensley, 110 Princeton Avenue, Oak Ridge. He is employed in Y-12's Area Five Maintenance. The groom is the son of Mr. and Mrs. Stanley Reynolds, Lexington, Kentucky.

The bride, given in marriage by her father, wore a floor-length gown of organza and alencon lace, wedding ring neckline with an alencon lace bodice and short lace sleeves. The empire styled gown with full A line skirt extended into a chapel length train. The skirt and train encircled with wide lace. The cathedral length mantilla held by camelot toque trimmed with lace and pearls. She carried a cascade of stephanotis and phalaenopsis orchids.

Miss Kathryn Kipp, Ft. Lauderdale, Florida, was maid of honor. Bridesmaids were Miss Barbara Safriet, Paintsville, Kentucky, cousin of the bride; Brenda Hogg, Oak Ridge; Linda Davison, Knoxville; Linda Alexander, Somerset, Kentucky; and Shirley Frederick, Lexington, Kentucky.

Craig Reynolds, Lexington, was his brother's best man. Ushers were Kent Reynolds, brother of the groom, Lexington, Kentucky; David Helfenberger, Oak Ridge, cousin of the bride; Dave Johnson, Louisville, Kentucky; William Hill, Frankfort, Kentucky; and Robin Hall, Lexington, Kentucky.

After a southern wedding trip the couple will live at 110 Dantzer Court, Apartment 3, Lexington, Kentucky.

The bride is a June graduate of Transylvania College, Lexington, and is a member of Chi Omega sorority. Mr. Reynolds also attended Transylvania and served as president of Phi Kappa Tau fraternity. He is presently attending dental school at the University of Kentucky.

CHARGE IT

Sign at a local draft board office: "We honor all draft cards!"



IT'S A KILLDEE . . . OR KILLDEER . . . according to our favorite Ornithologist (Look that up in your Funk and Wagnall's!) The killdee . . . or plover . . . nested near the Laundry recently and defied anyone to come near her precious eggs. The babies hatched out and immediately left the nest. Like chickens, quails and other fowl, the baby killdee does not stay in his nest, but is immediately able to forage with his mother. We have no fear for the babies' safety . . . what with a protective mama like the one above. All photos above were shot through telephoto lens, thank you.

Correction



Gentry

Harding

Myopic eyesight . . . and a mix-up at the printers caused an error in identifying photographs in last week's Bulletin. The names of John Harding and David Gentry were reversed under their photos. They are identified correctly above!

SMOKEY NEEDS HELP

Carelessness is a major cause of forest fires. Always be sure your matches and cigarets are completely out before discarding them, and never leave an unattended campfire burning, says the National Safety Council.



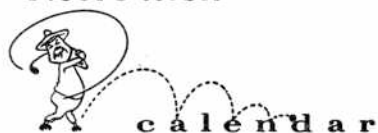
One rider wanted from South Knoxville, Island Home, Woodlawn, Chapman Highway, via Western Avenue, Solway, to any portal, straight day. W. H. Sherrod, plant phone 3-5156, home phone Knoxville 577-0295.

Will join car pool from Kingston Woods, West Knoxville, to North Portal, straight day. W. B. Snyder Jr., plant phone 3-5373, home phone Knoxville 584-5198.

Ride wanted or will join car pool from 100 Noland Road, intersection of Noland and New York, to East Portal, straight day. Ted H. Williams, plant phone 3-7288, home phone Oak Ridge 483-4281.

One car pool member wanted from Norwood area, Knoxville, to North or Central Portal, straight day. E. C. Keith, plant phone 3-5698 home phone Knoxville 689-2229.

Recreation



Monday, August 18

SOFTBALL LEAGUE: 6:15, 7:30, 8:45 p.m. Pinewood Park. Show Ups vs. All Stars; Snakes vs. Buccaneers; Eagles vs. K-25 Gashouse Gang.

VOLLEYBALL: 7 p.m. Informal play. New Jefferson Junior High School Courts.

Tuesday, August 19

SOFTBALL LEAGUE: 6:15, 7:30, 8:45 p.m. Pinewood Park. A Wingers vs. Beta 4 Astros; 69ers vs. Beta 2 Miners; Bat Boys vs. Braves.

WHITTLES GOLF LEAGUE: After work, Whittle Springs Golf Course, Knoxville. (Final session.)

Wednesday, August 20

MELTON HILL GOLF LEAGUE: After work, Melton Hill Golf Course, Clinton.

VOLLEYBALL: 7 p.m., Informal Play. New Jefferson Junior High School Courts.

Thursday, August 21

SOUTHWEST POINT GOLF LEAGUE: After work, Southwest Point Golf Course, Kingston (final session).

SOFTBALL LEAGUE: 6:15, 7:30, 8:45 p.m. Pinewood Park. Colts vs. J-Birds; Yankees vs. Big Sophs; NC Squad vs. Go Go Gophers.

HORSESHOE LEAGUE: 7 p.m. City Courts, Jackson Square.

Saturday, August 23

GOLF TOURNAMENT: 7 a.m. Whittle Springs Golf Course, Knoxville.

Coming Soon

BOWLING LEAGUES ALL OPEN EARLY IN SEPTEMBER!

Bye Goes To Whittles' Leaders

The Ball-Leach team took a bye to enjoy their lead in the Whittle Springs Golf League, awaiting the big tournament there set Saturday, August 23.

Norris-Smeltzer posted six at the expense of Holland-Wilson, and Troutman-Chitwood took six from True-Poe.

Cowen-O'Neal in second place enjoyed a five point win over Hensley-Tharp.

Bill Smeltzer fired a 34 for the low score of the week, handicap-wise. Allen True and Sam O'Neal fired 42 scores scratch. O'Neal tallied four pars.

League standings follow:

| Team | W | L |
|-------------------|----|----|
| Ball-Leach | 20 | 4 |
| Cowen-O'Neal | 16 | 8 |
| Norris-Smeltzer | 14 | 10 |
| Hensley-Tharp | 11 | 13 |
| Troutman-Chitwood | 11 | 13 |
| True-Poe | 10 | 20 |
| Holland-Wilson | 8 | 16 |

Bullard Takes July's Skeet Race

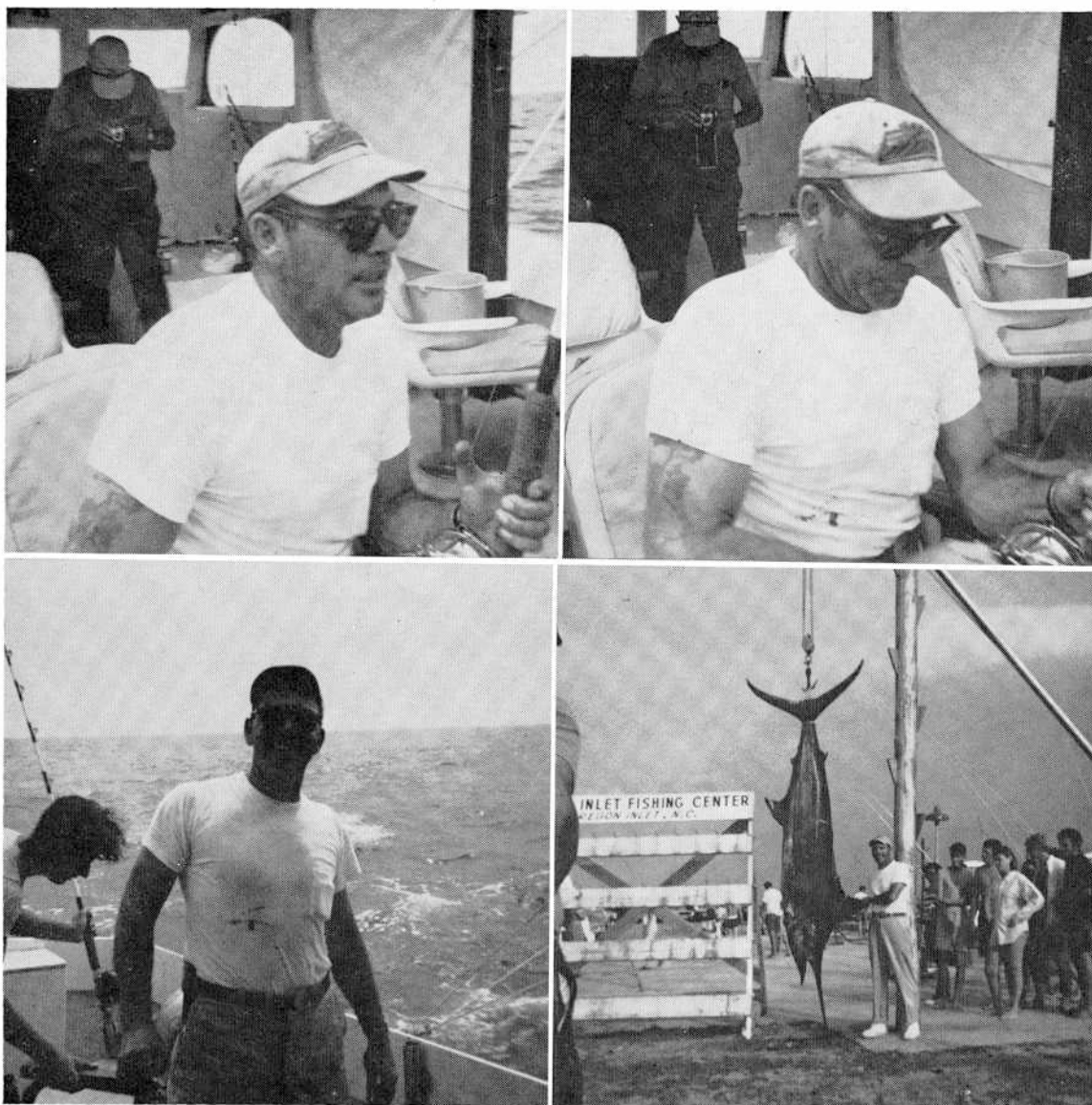
Skeet firings in July (on Sunday, the 20th) saw two Y-12ers in the magic circle of winners. . . . Perry Bullard firing first with a score of 49.589 . . . and Tommy Webber with 48.845. Fred Welfare came in second with a 49.156.

Webber beat out Joe Comolander by a long run of seven against three.

Complete scores:

| Skeeter | H'Cap Score |
|------------------------|-------------|
| R. A. Allstun, Y-12 | 46.525 |
| C. Asmanes, Y-12 | 48.575 |
| W. E. Weathersby, Y-12 | 48.338 |
| C. Theabold, K-25 | 48.400 |
| T. Webber, Y-12 | 48.845 |
| F. S. Patton, Y-12 | 49.323* |
| Fred Welfare, ORNL | 49.156 |
| J. Comolander, Y-12 | 48.845 |
| P. Bullard | 49.589 |
| W. H. Davy, K-25 | 49.228* |
| C. Brewster, Y-12 | 48.654 |
| D. L. Glover, Y-12 | 45.781 |
| D. Fry, ORNL | 48.610 |
| L. Bray, Y-12 | 47.706 |

*Under penalty.



THE LIFE AND DEATH OF A BIG BLUE Marlin might be the title of this picture story . . . as D. L. "Bo" Glover, Electrical, lands a giant marlin off the coast of Cape Hatteras . . . or Oregon Inlet. The big blue weighed 350 pounds, and measured 11 feet, one inch long! In the top photos, Bo hooks it . . . and fights it along. In the lower photos he is seen grinning after it has been gaffed and boated . . . and then seen with it, along with some astounded tourists, getting photographed and measured.

Patton, Etheredge Shoot Hi In Skeet

K-25er Conrad Theabold took first honors in the August Skeet firings . . . counted August 3. His 49.200 was high . . . and Y-12ers F. Patton and B. Etheredge followed with 49.156 and 48.654 respectively.

September's match has been set for Sunday, September 14 . . . at 1 p.m. All 'skeeters' are welcome, of course . . . newcomers, particularly so. They encourage learners to come along . . . even volunteer advice and help at firing at the clay pigeons.

August's firings:

| Skeeter | H'Cap Score |
|---------------------|-------------|
| P. Bullard, Y-12 | 48.446 |
| J. Comolander, Y-12 | 47.576 |
| L. Bray, Y-12 | 48.624 |
| C. Asmanes, Y-12 | 48.338 |
| D. Fry, X-10 | 48.313 |
| W. Davy, K-25 | 47.978 |
| R. Allstun, Y-12 | 47.774 |
| F. Welfare, X-10 | 48.313 |
| C. Theabold, K-25 | 49.200 |
| F. Patton, Y-12 | 49.156 |
| W. Weathersby, Y-12 | 47.391 |
| C. Brewster, Y-12 | 45.325 |
| D. Glover, Y-12 | 45.074 |
| B. Etheredge, Y-12 | 48.654 |



"I've thought of a manufacturing method that is better, faster, safer and cheaper—Do you suppose management will be interested?"

Y-12 Teams Are 1, 2, 3 In 18-Team Slo-Pitch Competition

Softball League action gave a forfeit to the 69ers over the Yankees last Monday to begin the week of play.

The Bat Boys belted the Beta 2 Miners 19 to 13 . . . as Romeo Greene and Ralph Horn connected with home runs.

The All Stars sneaked by the Gashouse Gang 9 to 8 . . . despite the fact they trailed in hits nine to 13.

Bob Belt belted out two homers for the winners . . . Jim Medlin, Ron McElhaney and Joe Fieldhouse homered for the losers.

Tuesday's play began with a forfeit also . . . as the Snakes appeared, the A-Wingers did not.

The NC Squad walloped the J-Birds 15 to 7 Tuesday . . . as Ron Marcum and Dave Post socked long ones over the fence.

Play came after dark as the Braves beat the Buccaneers 21 to 8. Ray Riggs, Steve Babb and Bobby Hopkins all put four-baggers on the record books.

Thursday, not to be out-done, also showed a forfeit loss . . . as the Show Ups took a victory from the Beta 4 Astros.

The Eagles beat the K-25 Colts 12 to 6 . . . as Dave Hendrickson, Don Ferree and Dave Mason earned a homer apiece . . . Ron Greene collected two, all for the winning birds. Bob Seyfreid poled one for the losing team.

The Braves made little shops of the Big Shops 18 to 2 . . . John Evans, Jim Milligan, Larry McDonald and Bobby Hopkins all homering.

For the losers it was Lyn Story with two homers, for the only runs the losers earned.

The Big Shops returned to the

diamond to belt the Go Go Gophers 23 to 7 . . . as they fired off 21 hits . . . to 15 for the GGG's.

League standings follow:

| Team | W | L |
|--------------------|----|----|
| Braves | 14 | 0 |
| Snakes | 13 | 1 |
| Eagles | 12 | 2 |
| Colts | 12 | 3 |
| All Stars | 10 | 4 |
| K-25 Gashouse Gang | 9 | 5 |
| 69ers | 9 | 5 |
| J-Birds, K-25 | 8 | 6 |
| Buccaneers | 7 | 7 |
| Yankees | 6 | 8 |
| Big Shops | 5 | 9 |
| Go Go Gophers | 4 | 10 |
| Show Ups | 4 | 10 |
| Bat Boys | 3 | 11 |
| A-Wingers | 3 | 12 |
| Beta 2 Miners | 1 | 12 |
| Beta 4 Astros | 0 | 15 |

Baggy clothes or unshielded face can cause the machinist a great disgrace.

Melton Hill Lead Still--Babb-Baker

Babb and Baker belted the Ellis-Sise team for the full-count last week in the Melton Hill Golf League, to keep their top-standing in ratings. The only other sweeps saw Tuck-Wetzel over Holdaway-Reed and Sherrod-Wyrick over Roberts-Cook. Five points went to Wright-Stewart over Parrott-Parker, Riggs-McElroy by Brown-Bell, Clabough-Tiller over Winstead-Johnson, Helton-Hill superior to Dunaway-Wright and Carter-Waldrop by Alvey-Phillips.

Sewell-Sewell picked up four at the expense of Nelson-Poly.

Frank Tuck tucked away low scratch score of the week . . . 38 . . . and Bob Carter posted a 31 handicap score.

League standings follow:

| Team | W | L |
|------------------|----|----|
| Babb-Baker | 53 | 19 |
| Wright-Stewart | 50 | 22 |
| Riggs-McElroy | 49 | 23 |
| Tuck-Wetzel | 47 | 25 |
| Clabough-Tiller | 45 | 27 |
| Parker-Parrott | 42 | 30 |
| Helton-Hill | 41 | 31 |
| Phillips-Alvey | 36 | 36 |
| Sewell-Sewell | 36 | 36 |
| Sherrod-Wyrick | 35 | 37 |
| Brown-Bell | 34 | 38 |
| Dunaway-Wright | 33 | 39 |
| Winstead-Johnson | 33 | 39 |
| Holdaway-Reed | 28 | 44 |
| Ellis-Sise | 26 | 46 |
| Carter-Waldrop | 25 | 47 |
| Poly-Nelson | 24 | 48 |
| Roberts-Cook | 11 | 61 |

Nichols-Norris New Horseshoe Leaders

Y-12ers Nichols and Norris jumped into the lead early in the second half of the Horseshoe League last week, capping nine points from Bailey-Luckett. Case-Allmon put Wyatt-Wagner down for five big ones . . . and Durham-Harness did the same with Helms-Fowler.

The Gray-Copeland, Reed-Stephens was postponed.

League standings follow:

| Team | W | L |
|----------------|---|---|
| Nichols-Norris | 9 | 0 |
| Case-Allmon | 5 | 4 |
| Durham-Harness | 5 | 4 |
| Wyatt-Wagner | 4 | 5 |
| Helms-Fowler | 4 | 5 |
| Bailey-Luckett | 0 | 9 |
| Gray-Copeland | 0 | 0 |
| Reed-Stephens | 0 | 0 |

Lead Stretched In SW Point Golf

Goss-Stanton extended their lead in the Southwest Point Golf League last week by shellacking Mee-Wright for five points.

Posting four were Jones-Morgan, over Argo-Groppe . . . and Smith-Henderson over Bolt-Bush.

League standings follow:

| Team | W | L |
|-----------------|----|----|
| Goss-Stanton | 52 | 20 |
| Jones-Morgan | 43 | 29 |
| Smith-Henderson | 41 | 31 |
| Bolt-Bush | 33 | 39 |
| Mee-Wright | 30 | 42 |
| Argo-Groppe | 17 | 55 |

Tee-Off Time Application For Whittle Springs Golf Tournament

Saturday, August 23

Foursome

_____, Leader

_____,

_____,

_____,

_____,

Leader's office phone _____

Home phone _____

Tee-off Time Preferred _____

Fill out completely and return to the Recreation Office, Building 9711-5. Deadline for entering is 4:30 p.m. Wednesday, August 20. Tee-off times will be drawn the next day, Thursday, August 21 at 8:30 a.m.



GEORGE HEINS, ENGINEERING, highly recommends a visit to Washington, D.C. . . . especially with the kids. Heins is seen above with his wife, son Buddy . . . and Mrs. Heins' mother, Mrs. Louella Jones. Congressman John J. Duncan is seen shaking hands with Buddy. Write ahead, urges Heins!

Y-12er Heins Recommends Advanced Planning For Washington Vacation

Washington, D.C. belongs to the tourist as no other city in the world does. And nobody minds . . . least of all the congressmen there. Because it's thanks to the visiting tourist from back home that keeps him there!

The Washington Monument, one of the world's best known landmarks, bears no identifying sign, yet the kid in the first grade knows what it is, and in whose memory it stands.

Washington is, basically, a cornball town, according to a well-known tour guide . . . proud of its historic importance, cognizant of its contemporary world role, yet sentimental as a drunken Irishman over its glorious past.

There are a million and one things to do and see in this great mecca . . . and most of them free, too.

According to Arthur Frommer, there are 10 "must" sights in Washington . . . The Capitol (you need visitor passes to gain admittance to the halls of Congress . . . well worth writing your congressman in advance, too!) . . . The Supreme Court (try to get there while the court is in session . . . no ticket is needed, but you need to get there early) . . . The White House, the only private residence in the country supported wholly by public funds, which makes landlords out of all of us! . . . The Washington Monument, the 555-foot shaft, probably the first thing you recognize when you get to the capitol . . . The Lincoln Memorial, a beautiful shrine built to the martyred Civil War president . . . The Jefferson Memorial, a beautiful tribute to the author of the Declaration of Independence . . . The Smithsonian Institution, a combination of seven museums . . . the National Archives . . . the Federal Bureau of Investigation . . . and the Bureau of Printing and Engraving.

Of course, there are a thousand other things to see and visit, too. There are art galleries, excellent

restaurants, fine hotels and motels . . . you name it, and Washington has it.

Then there's Arlington Cemetery with its well-known and unknown dead . . . with monuments familiar to all of us.

George Heins, Environmental Control Engineering, recently took his family to these shrines.

George urges you write your congressman or senator in advance, however. "I can't over-emphasize how nice Congressman John Duncan was to me and my family," he stated.

Second District residents have Duncan as a congressman . . . Third District constituents should contact Joe L. Evins. Of course, either of our senators . . . Howard Baker or Albert Gore will be delighted to see folks from back home, too. It is wise to write any of them in advance, however, due to their crowded schedule. (They can provide you with tickets and passes to events you would otherwise miss, Heins advises.)

Visiting with Heins was his wife, and son Buddy, and his mother-in-law, Mrs. Luella Jones. Going back? You bet, says George . . . the next time we'll take the other kids. "They'll be big enough to enjoy it next time. Only next time we will take more time than we did this time."

The Heins men got to see the All Star game between the two major leagues during their stay in Washington . . . thanks to Congressman Duncan. But it will be the memory of his nation's heritage that will stick in 10-year-old Buddy's memory. There's no better way to stress your country's greatness, according to Heins.

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ROUGHING IT

'Roughing it' on a camping trip does not mean intentionally making yourself uncomfortable. An uncomfortable, irritable, and disappointed camper is prone to careless disregard of safety habits, says the National Safety Council.



August picks up speed bringing more anniversaries for Y-12ers, marking big days with Union Carbide Corporation. Congratulations!

25 YEARS

Vern B. Gritzner, Alpha Five Processing, August 13.

John L. Householder, Dimensional Inspection, August 13.

Willie H. Bonney, Assembly Operations, August 14.

Ernest R. Watkins, Tool Engineering, August 14.

Eugene L. Hill, Buildings, Grounds and Maintenance Shops, August 16.

Carl M. Jones, Chemical Services, August 16.

Simon J. Myers Jr., General Expediting and Auxiliary Services, August 18.

15 YEARS

J. B. Boles, Buildings, Grounds and Maintenance Shops, August 13.

Barnum W. Hensley, 9766 Machine Shop, August 13.

William C. King, General Expediting and Auxiliary Services, August 13.

Edward C. Pate, Alpha Five East Shop, August 13.

William R. Harvey, Beta Two Shop, August 13.

Winston C. Coffey, Research Services, August 13.

James C. Taylor, Material Transfer and Packing, August 14.

Joseph D. Roseler, Process Maintenance, August 16.

Will Steele, 9215 Rolling Mill, August 16.

Howard S. Avant, Chemistry Development, August 16.

Donald William Hackett, Metallurgical Development, August 16.

Harold L. Bell, Dimensional Inspection, August 16.

Samuel E. McCoy, Mechanical Inspection, August 18.

Lonnie A. Morris, Mechanical Inspection, August 18.

Edgar Cooper, Tool Grinding, August 19.

10 YEARS

James P. Young, Alpha Five East Shop, August 17.

Child Can Be Taught To Swim

If you or any of your children are non-swimmers, summer is the season to waterproof yourselves.

Whether you're a swimmer or not, the lure of the water is often irresistible in summer, making summer months the peak periods for drownings. In 1966 most drowning fatalities occurred in July, with the second highest number in June.

Even if you avoid entering the water next summer because you are a poor or non-swimmer, there is a chance of meeting trouble. Over one-half of the 7,000 drownings in 1966 were labelled "non-swimming" fatalities—people who fell into the water from such spots as docks, bridges, shores, and boats. These accidents have contributed to making drownings the fourth leading cause of accidents.

The National Safety Council advises that each person needs to learn: How to hold or row to someone in trouble in the water, how to stay afloat with clothes on, how to swim, and how to use simple life saving skills.

Often a simple stroke like a dog paddle will enable a floundering swimmer to reach the shore. In 1965 it was estimated that half of all drownings happened within 20



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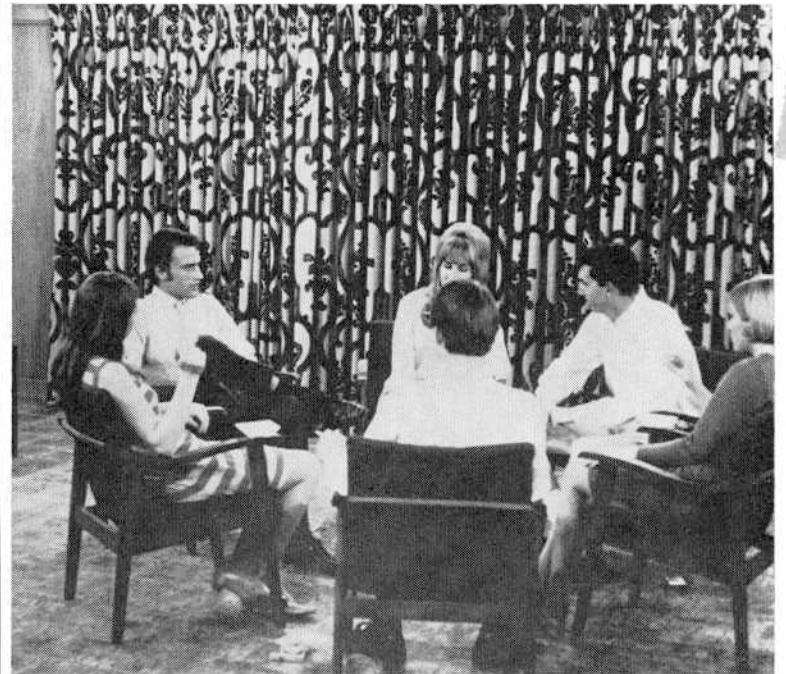
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A CIRCLE OF LOVE . . . 'The 21st Century' will report highlights of an encounter group session with six college students from San Diego, California, participating Sunday, August 17 at 6 p.m., EDT, in color on the CBS Television Network. The program is carried in this vicinity by WBIR-TV, Channel 10. Instructions are given by tape recorder, CBS News Correspondent Walter Cronkite is principal reporter for the series which is sponsored in the public interest by Union Carbide Corporation.

'Circle Of Love' Subject For TV '21st Century' Program This Sunday

A modern experiment in the behavioral sciences, designed to help people communicate understanding in greater depth, to learn love rather than hatred, will be seen when "The 21st Century" reports "A Circle of Love," Sunday, August 17 at 6 p.m., EDT, in color on the CBS Television Network. The program is carried in this locale by WBIR-TV, Channel 10. CBS News Correspondent Walter Cronkite is principal reporter for the series which is sponsored in the public interest by Union Carbide Corporation.

"The 21st Century" cameras recorded the experiment as six college students from the San Diego, California area participated in a 10-session "Encounter Group" course similar to those taking place in universities throughout the country. The students' objective is to try to break old patterns and learn new ways to relate to themselves and the world. The

feet of safety. That's about the distance from bumper to bumper on your car.

Many groups such as the YMCA, YWCA, Boy Scouts, and Red Cross have classes that can teach you to swim at least 20 feet. Enroll early for swimming lessons offered by these groups because spring classes are often less crowded than summer classes. Also, if you learn at an indoor pool, it's more comfortable, and you can concentrate without on-lookers.

Waterproof yourself now for a fun filled summer in the water.

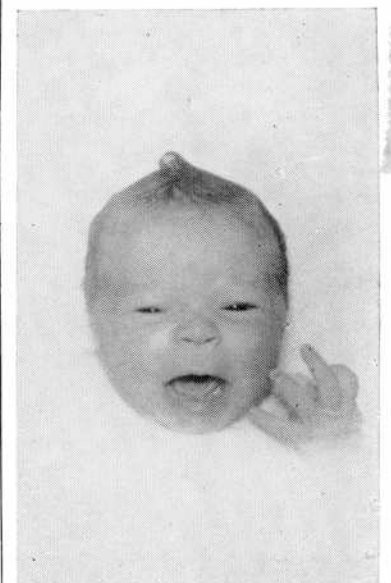
First aid fast and bandage neat make germs beat a quick retreat.

students met for the very first time at the start of the first session.

Instructions are delivered by timed audio tapes prepared and recorded by psychologists of the Western Behavioral Sciences Institute in La Jolla, California.

Tom Schachtman and Peter Poor wrote "A Circle of Love"; Fred Warshofsky is science editor for "The 21st Century"; Isaac Kleinerman is producer and Burton Benjamin executive producer.

"A Circle of Love," Sunday, August 17, at 6 p.m. . . . WBIR-TV.



NOT TOO HAPPY about entering this old world is Melissa Beth Bozeman . . . born June 22 to Joel and Glenda Bozeman. She is the first grandchild of H. D. Bozeman, Beta 2 Forming, who's mighty happy about her entrance.